

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P390727

Luminaire Tested: **22CZ2-80VHE-RDP-UNV-L950-CD1-SWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P390727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-80VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4873.4 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

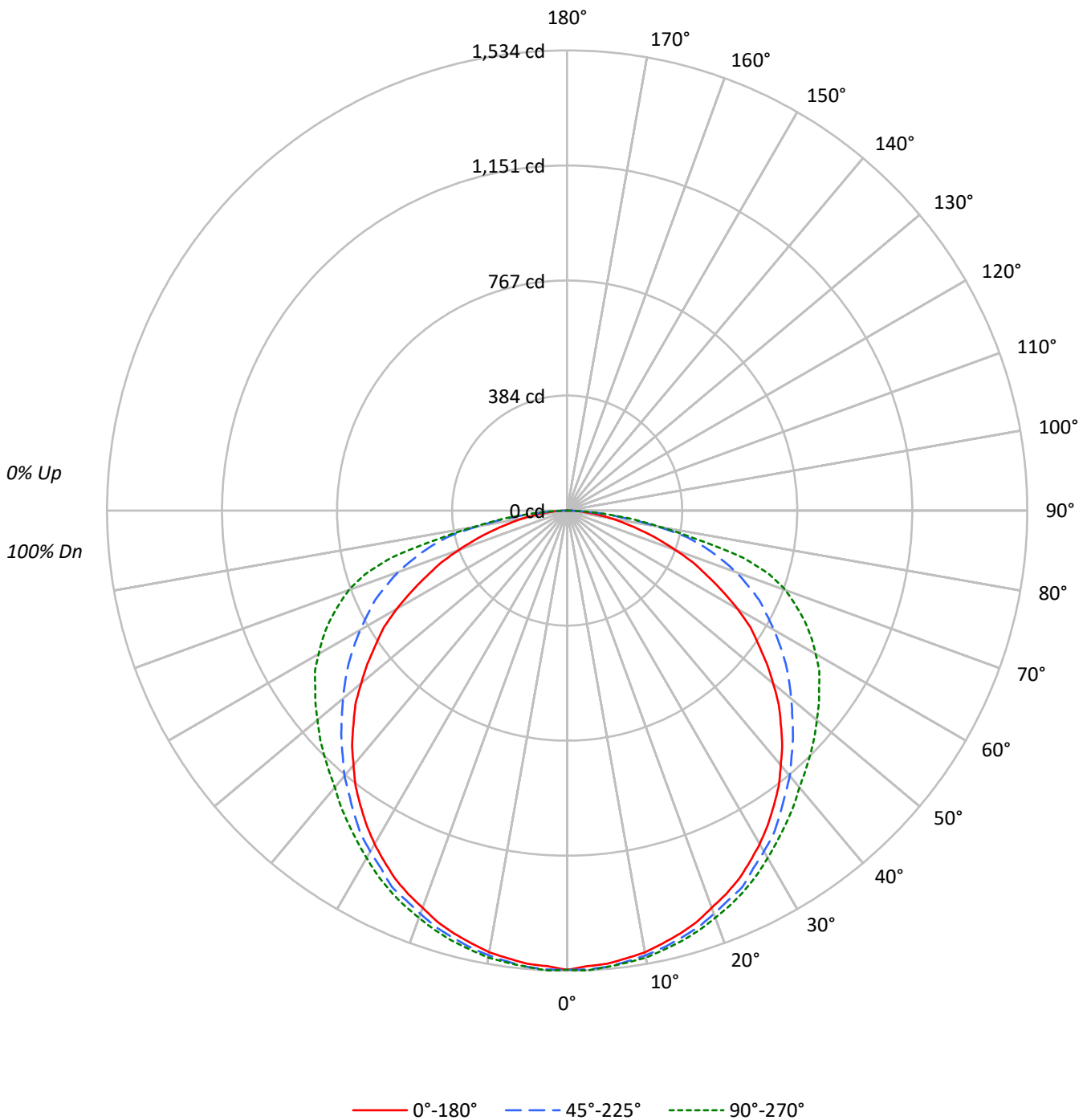
Input Watts (W): 59.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4119	4119	4119
5°	4096	4125	4125
10°	4085	4114	4134
15°	4065	4105	4135
20°	4035	4096	4137
25°	4024	4109	4151
30°	3988	4077	4155
35°	3945	4063	4181
40°	3892	4055	4232
45°	3834	4052	4366
50°	3752	4082	4548
55°	3650	4171	4810
60°	3531	4283	5152
65°	3287	4497	5570
70°	3018	4711	6093
75°	2646	4957	6300
80°	2278	4722	4945
85°	1991	3430	3764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.0
10°-20°	415.8	8.5
20°-30°	634.3	13.0
30°-40°	774.5	15.9
40°-50°	828.1	17.0
50°-60°	799.3	16.4
60°-70°	688.1	14.1
70°-80°	465.6	9.6
80°-90°	122.8	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1194.9	24.5
0°-40°	1969.4	40.4
0°-60°	3596.9	73.8
0°-90°	4873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4873.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1516	1520	1527	1527	1527	144
15°	1459	1463	1474	1481	1484	412
25°	1355	1362	1384	1391	1398	624
35°	1201	1212	1237	1262	1273	751
45°	1007	1025	1065	1118	1147	778
55°	778	803	889	979	1025	697
65°	516	566	706	817	875	513
75°	254	337	477	574	606	273
85°	64	90	111	115	122	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.8	1530.8	1530.8	1530.8	1530.8
2.5°	1520.1	1523.6	1530.8	1530.8	1534.4
5°	1516.5	1520.1	1527.2	1527.2	1527.2
7.5°	1505.7	1509.3	1516.5	1520.1	1520.1
10°	1495.0	1498.6	1505.7	1509.3	1512.9
12.5°	1477.0	1480.6	1491.4	1498.6	1498.6
15°	1459.1	1462.7	1473.5	1480.6	1484.2
17.5°	1437.6	1444.8	1455.5	1462.7	1466.3
20°	1408.9	1416.1	1430.4	1441.2	1444.8
22.5°	1383.8	1391.0	1405.3	1416.1	1423.3
25°	1355.2	1362.3	1383.8	1391.0	1398.2
27.5°	1319.3	1326.5	1344.4	1358.7	1369.5
30°	1283.5	1290.6	1312.1	1330.1	1337.2
32.5°	1244.0	1254.8	1279.9	1294.2	1305.0
35°	1201.0	1211.7	1236.8	1261.9	1272.7
37.5°	1158.0	1168.7	1193.8	1226.1	1240.4
40°	1107.8	1122.1	1154.4	1197.4	1204.6
42.5°	1061.2	1079.1	1107.8	1158.0	1175.9
45°	1007.4	1025.3	1064.8	1118.5	1147.2
47.5°	957.2	975.1	1018.2	1082.7	1118.5
50°	896.3	921.4	975.1	1050.4	1086.3
52.5°	838.9	860.4	932.1	1014.6	1057.6
55°	778.0	803.1	889.1	978.7	1025.3
57.5°	724.2	745.7	842.5	942.9	996.6
60°	656.1	684.7	795.9	903.4	957.2
62.5°	584.4	627.4	749.3	860.4	917.8
65°	516.2	566.4	706.3	817.4	874.8
67.5°	455.3	509.1	652.5	770.8	824.6
70°	383.6	451.7	598.7	713.4	774.4
72.5°	319.1	394.4	537.8	652.5	706.3
75°	254.5	337.0	476.8	573.6	605.9
77.5°	197.2	276.0	408.7	437.4	441.0
80°	147.0	218.7	304.7	308.3	319.1
82.5°	100.4	154.2	197.2	215.1	218.7
85°	64.5	89.6	111.1	114.7	121.9
87.5°	28.7	32.3	39.4	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)